

Toropov, N. A., Nikogosyan, Kh. S., and Bolkova,  
A. I.  
ON THE FORMATION OF THE  $\alpha$ -HYDRATE OF  
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Trans. of Akademicheskie Nauk SSSR. Doklady] 1960,  
v. 135, no. 1, p. 98-100.

DESCRIPTORS: \*Cements, \*Silicates, \*Calcium com-  
pounds, \*Oxides, \*Hydrates, Synthesis (Chemistry),

(Chemistry, TT, v. 11, no. 9)

TT-64-10173

I. Toropov, N. A.  
II. Nikogosyan, Kh. S.  
III. Bolkova, A. I.

Office of Technical Services

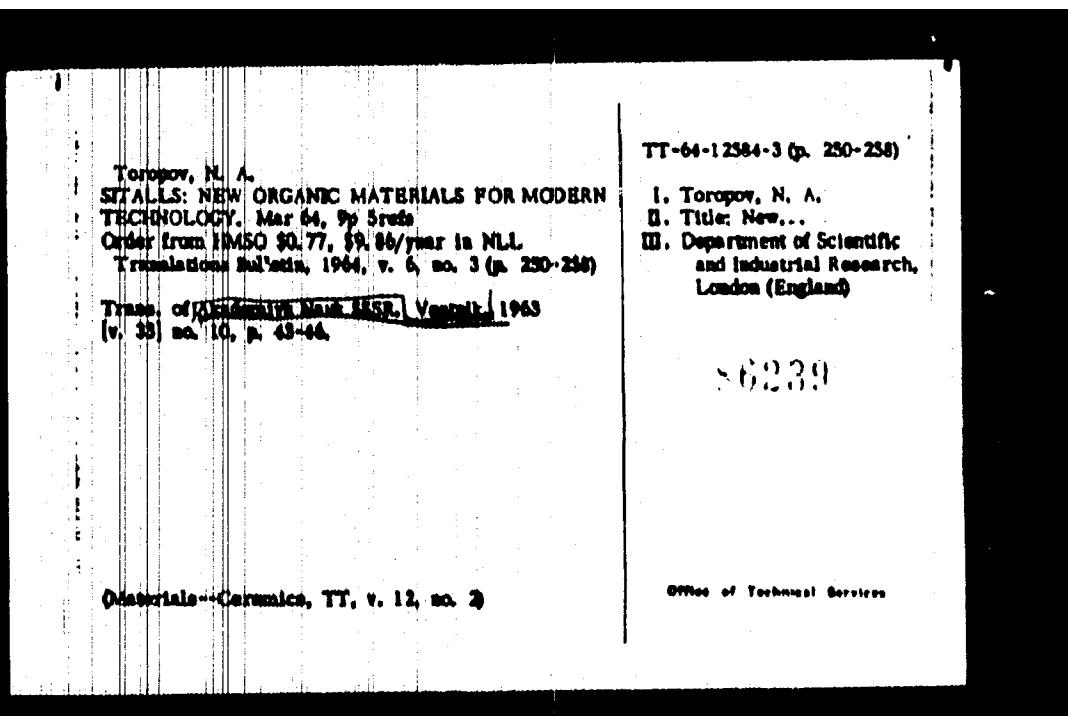
Silicates of the Rare Earth Elements.  
Communication 3. Phase Diagram of the  
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I.A. Morozov, I.A. Bondar, 7pp.

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Toropov, I. A. Bondar, 6pp.

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 $\text{Sm}_2\text{O}_3\text{-SiO}_2$ , and  $\text{Yb}_2\text{O}_3\text{-}\text{Mg}_2\text{SiO}_4$ , and Comparison  
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H. A. Berman. [1963] [11 p. 11 refs.]  
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Khimii i Tekhnologii Tsamenta (Conference on the  
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DESCRIPTORS: \*Calcium compounds, \*Strontium com-  
pounds, Okidea, \*Silicates, Mixtures, Solubility,  
Synthesis (Chemistry), Microscopy, Refractive index,  
Calorimetry, Transition temperature, X-ray diffrac-  
tion analysis, Crystal structure, \*Cements,

(Chemistry-Physical, TT, v. 11, no. 1) (over)

TT-63-23767

- I. Toropov, N. A.
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- III. Title: New ...
- IV. Title: Soveshchaniya...
- V. Title: Conference ...
- VI. National Bureau of  
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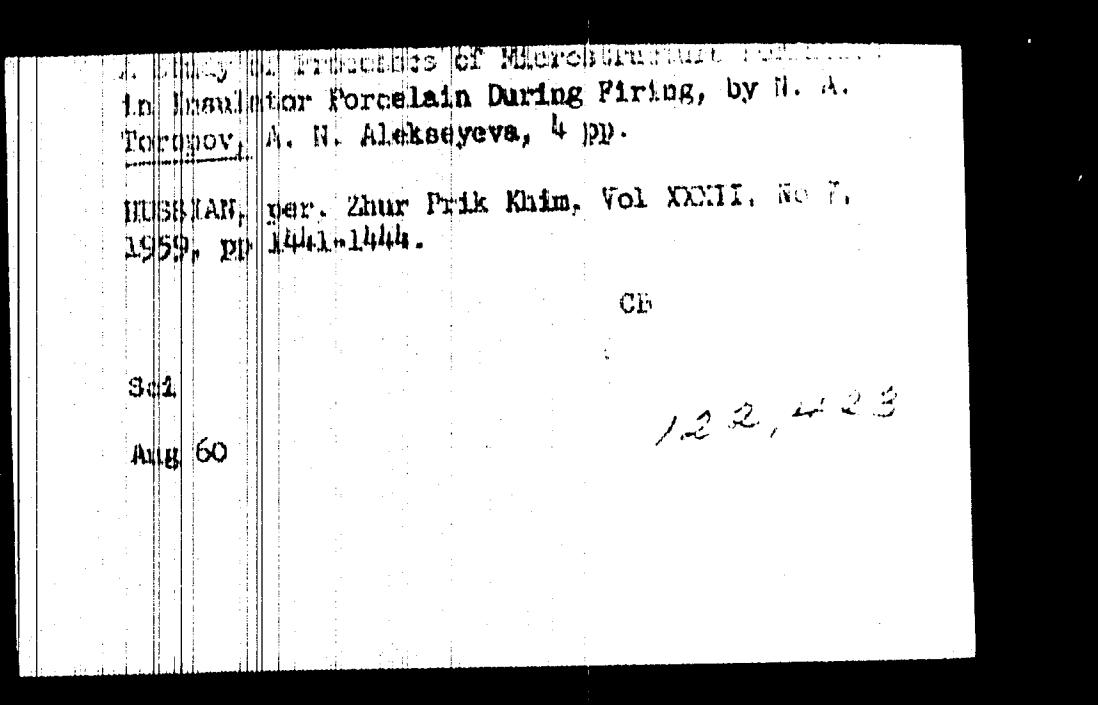
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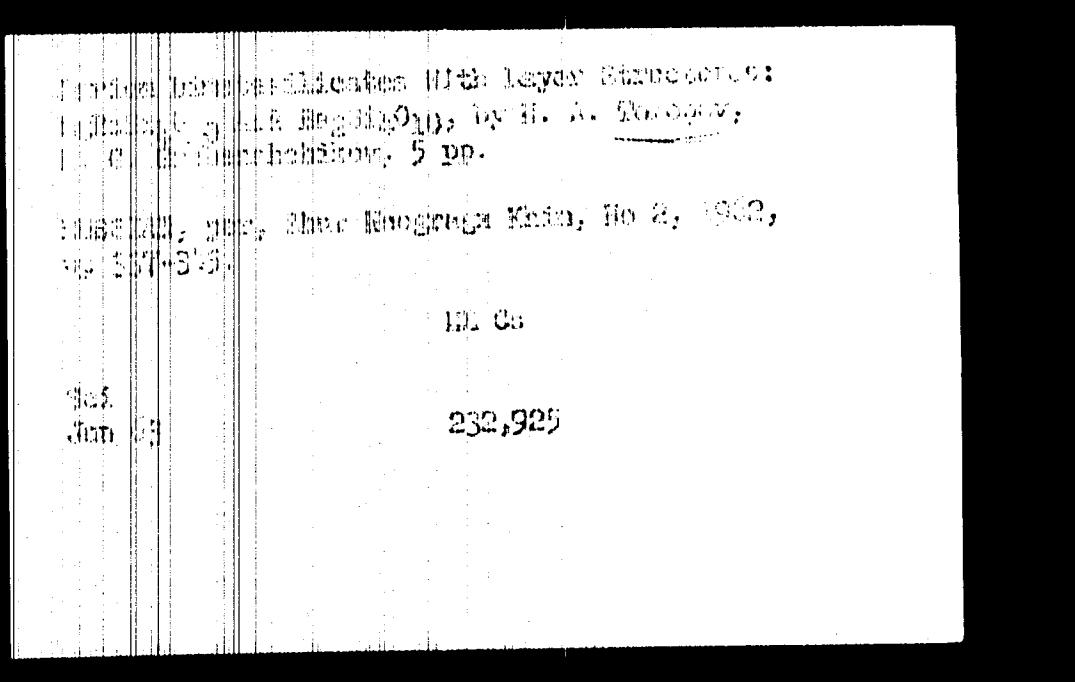
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PLATE 816



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POLYMORPHIC TRANSFORMATION OF  $3\text{CaO}\cdot\text{SiO}_2$   
AND THE INFLUENCE OF FERROUS OXIDE ON  
 $3\text{CaO}\cdot\text{SiO}_2$  AND OTHER CLINKER MINERALS  
(Polimorfnye Prevrashcheniya  $3\text{CaO}\cdot\text{SiO}_2$  I Vliyanie  
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DSIR Library Communication no. 1041.

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Trans. of Tsement (USSR) 1960, v. 26, no. 6, p. 11-20.

DESCRIPTORS: Calcium compounds, \*Silicates,  
\*Cements, Minerals, Crystal structure, Polymorphism,  
Transformations, Iron compounds, Oxides.

Experiments show that tricalcium silicate exists in two modifications. The transition to the high-temperature modification takes place at  $1375^\circ\text{C}$ . The time required for the disintegration of tricalcium silicate to free calcium oxide and di calcium silicate, at  $1900^\circ\text{C}$ , is about (Material, TT, v. 6, no. 5) (over)

61-27055

- I. Toropov, N. A.
- II. Volkonskii, B. V.
- III. LC-1041
- IV. Department of Scientific  
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(Gt. Brit.)

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Shirokova, P. V.

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Library Communication no. 663; TL 1584; M2179.  
Order from LC or SLA m1\$1.80, ph\$1.80 61-13674

Trans. of [Akademiya] Nauk SSSR. Doklady. 1953,  
v. 92, no. 5, p. 1015-1018.

(Chemistry--Physical. TT, v. 5, no. 1)

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- I. Cements--Chemical reactions
- II. Calcium oxide-phosphorus pentoxide-silicon dioxide systems--Phase studies
- III. Shirokova, P. V.
- IV. LC-663
- V. Trans-TL-1584
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Scientific - ~~Chemical~~ Chemistry 14,844

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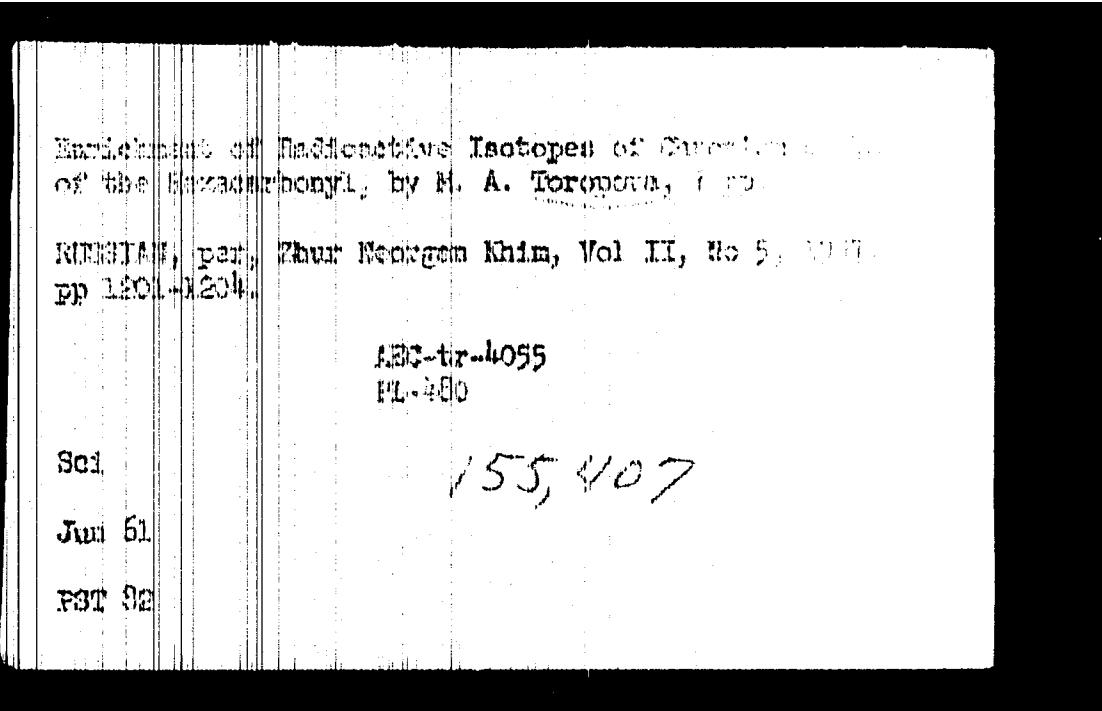
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PSP (B)

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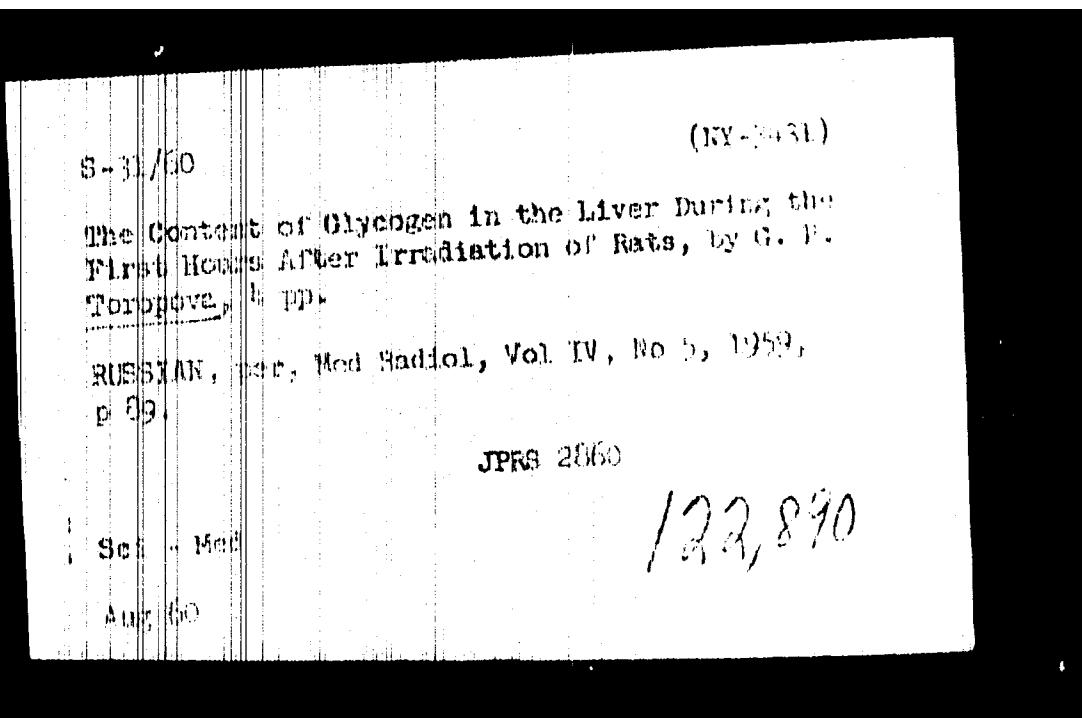
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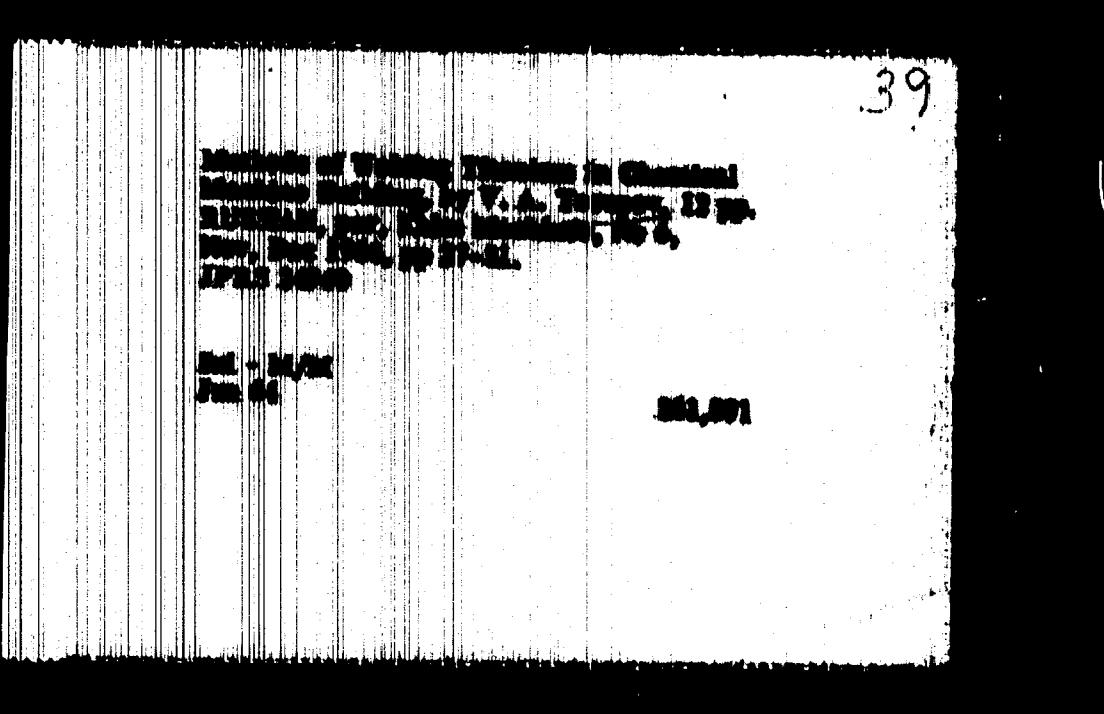
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